PROJECT DESCRIPTION GENERAL THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 28 (KEY WEST AVENUE) AT MEDICAL CENTER DRIVE /OMEGA DRIVE IN MONTGOMERY COUNTY. MD 28 IS CONSIDERED TO RUN IN AN EAST/WEST DIRECTION. MODIFICATION TO INTERSECTION TO INCLUDE REMOVE AND REPLACE NB/SB SIGNAL HEADS WITH L.E.D. SIGNAL HEADS. ADD NB/SB EXCLUSIVE LEFT TURN PHASING, MODIFY SB LANE USE TO 2 LT, 1 THRU AND INTERSECTION OPERATION THE EXISTING CONTROLLER SHALL BE UTILIZED.
THE INTERSECTION WILL BE MODIFIED TO OPERATE USING 8 NEMA PHASES. THERE WILL BE AN EXCLUSIVE LEFT TURN PHASE FOR THE EAST AND WESTBOUND MOVEMENTS OF MD 28. THE MD 28 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY WITH AN ACTUATED PEDESTRIAN MOVEMENT ACROSS THE NORTH AND SOUTH LEGS OF THE INTERSECTION. THE MEDICAL CENTER DRIVE/OMEGA DRIVE MOVEMENTS WILL OPERATE WITH A EXCLUSIVE LEFT TURN PHASE FOR THE NORTH AND SOUTHBOUND MOVEMENTS. THE THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY WITH A ACTUATED PEDESTRIAN MOVEMENT ACROSS THE WEST LEG OF THE INTERSECTION.

SPECIAL NOTES

PHONE: (410) 787-7630

1. THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS: MS. ANYESHA MOOKHERJEE, ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (301) 513-7498 MR. KEVIN NOWAK. ASSISTANT DISTRICT ENGINEER - CONSTRUCTION PHONE: (301) 513-7341 MR. TOM FOUNTAIN. ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (301) 615-7304
MR. VICTOR GRAFTON, UTILITY ENGINEER PHONE: (301) 513-7350
MS. CORREN JOHNSON, CHIEF, TRAFFIC OPERATIONS DIVISION

THE CONTACT PERSONS FOR MONTGOMERY COUNTY DOT AS FOLLOWS: MR. KAMAL HAMUD. DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS PHONE: (240) 777-8761 MR. CHRIS ROMAINE, MONTGOMERY COUNTY DOT DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS PHONE: (240) 777-8762
MR. ROBERT RICKETTS, MONTGOMERY COUNTY DOT TECHNICAL CENTER PHONE: (240) 867-3681

ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY THE SHA SIGNAL SHOP. CONTRACTOR SHALL CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION.

EQUIPMENT LIST

- A. EQUIPMENT TO BE SUPPLIED BY THE MARYLAND STATE HIGHWAY ADMINISTRATION. NONE.
- B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

UNITS DESCRIPTION

MAINTENANCE OF TRAFFIC

MR. EDWARD RODENHIZER, MANAGER, SIGNAL OPERATIONS PHONE: (410) 787-7652

LUMP SUM MOBILIZATION

12 IN. 3-SECTION LED SIGNAL HEAD - SPAN

12 IN. 3-SECTION LED SIGNAL HEAD (RA.YA.GA) - SPAN

30 IN. X 36 IN. REGULATORY SIGN - SPAN WIRE

32 IN. X VAR. STREET NAME SIGN - SPAN WIRE

5-CONDUCTOR CABLE (NO. 14 AWG)

7-CONDUCTOR CABLE (NO. 14 AWG) RAISE FRAME AND COVER ON EXISTING HANDHOLE

EA NEMA LOAD SWITCHES

LS REMOVE EXISTING SIGNAL EQUIPMENT

Wiring Diagram

<u>Ò</u>———————————

 $R \mid R \mid +R-\mid +R-\mid +R-\mid R \mid R \mid +G-\mid G$

J**←**R--|**←**R-|

R |←R-|←R-|←R-|

| ←R-| ←R-| R

|+R-|+R-|+R-| R

EXISTING IC TO MD 119 ------

7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

R DW DW DW DW DW DW

R DW DW DW DW DW DW

DW | DW | DW | DW |

DW DW DW DW

DW DW DW DW

DW DW FLOWFLOW

DW DW DW WK WK

DW | DW | DW | DW L

i DW | DW | DW |

DW

DW

DW

G DW

DW .

DW

| FL/R | FL/R |DARK|DARK|DARK|DARK|DARK

DW DW DW DW DW DW

5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.

2. PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN

ACCORDANCE WITH MD-SHA STANDARDS. ALL OTHER PAVEMENT MARKINGS ARE TO BE CONSIDERED AS EXISTING. 3. GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR

TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT. 4. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.

The Traffic Group, Inc. Suite H 9900 Franklin Square Drive Baltimore, Maryland 21236 410-931-6600 *1-800-583-8411* Fax 410-931-6601

"Merging Innovation and Excellence"®

PHASE 1 AND 5

PHASE 1 AND 6

PHASE 2 AND 5

PHASE 2 AND 6

PED CLEARANCE

2 AND 6 CHANGE

PHASE 3 AND 7

PHASE 3 AND 8

PHASE 4 AND 7

PHASE 4 AND 8

4 AND 8 CHANGE

PED CLEARANCE

FLASHING

OPERATION

PHASE 4 ALT AND 8

4 ALT AND 8 CHANGE

3 CHANGE

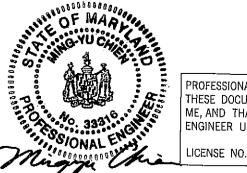
7 CHANGE

1 CHANGE

5 CHANGE

1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6

3 AND 7 CHANGE TO 3 AND 8,4 AND 7, OR 4 AND 8



PROFESSIONAL CERTIFICATION — I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENESED PROFESSIONAL LICENSE NO.: 33316EXPIRATION DATE: 2/13/14

Phase Chart

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

| ←R-| R | ←R-| ←R-| R

| ←R-- | R | ←R-- | ←R-- |

[←R-]←R-]

G [←R-]←R-|

FL/R FL/

 $R \mid +R- \mid R \mid R$

|**←**R−| R

| **←** R – | R |

G

. FL/R FL/R FL/

|**←**R−|

ı'**∢**-R−ı'

l ←R⊸l

R |**←**R−|

| FL/Y | FL/Y |

MD-AMD Tracking No.: 11APMO045XX

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION MD 28 (KEY WEST AVENUE) AT MEDICAL CENTER DRIVE OMEGA DRIVE

GENERAL INFORMATION PLAN

SCALE N/A DATE AUGUST 13, 2013 CONTRACT NO. BW996M82 DESIGNED BY F. BROWNLEY <u>MONTGOMERY</u> DRAWN BY F. BROWNLEY LOGMILE <u> 1500281</u>9.16 CHECKED BY J. DIRNDORFER F.A.P. NO. TOD NO. TS NO. 4057G DRAWING **SG**: - **01** OF **01** SHEET NO. 2 OF 2

PLOTTED: Tuesday, August 13, 2013 AT 09:14 AM
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